

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT



APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER Willow Ridge 1622-3M3D-BH1			
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT UNDESIGNATED			
4. TYPE OF WELL Oil Well <input type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>						5. UNIT or COMMUNITIZATION AGREEMENT NAME			
6. NAME OF OPERATOR ANADARKO E&P ONSHORE, LLC						7. OPERATOR PHONE 720 929-6100			
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217						9. OPERATOR E-MAIL Andy.Lytle@anadarko.com			
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) ML-47563			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>			
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')			
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')			
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input checked="" type="checkbox"/>			

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	660 FSL 150 FWL	SWSW	3	16.0 S	22.0 E	S
Top of Uppermost Producing Zone	1377 FSL 150 FWL	NWSW	3	16.0 S	22.0 E	S
At Total Depth	660 FNL 150 FWL	NWNW	3	16.0 S	22.0 E	S

21. COUNTY GRAND		22. DISTANCE TO NEAREST LEASE LINE (Feet) 660		23. NUMBER OF ACRES IN DRILLING UNIT 640	
		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 4882		26. PROPOSED DEPTH MD: 12448 TVD: 8776	
27. ELEVATION - GROUND LEVEL 7355		28. BOND NUMBER 22013542		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-8496	

Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
SURF	14.75	10.75	0 - 2000	40.5	J-55 LT&C	8.4	Type III	710	2.21	12.5
							Type III	300	1.55	14.3
							Class G	230	1.15	15.8
PROD	6.875	5.5	0 - 8684	23.0	P-110 LT&C		Class G	520	1.52	13.5
							Unknown	0	0.0	0.0
							Class G	1300	1.52	12.5
I1	9.875	7.625	0 - 9184	29.7	J-55 LT&C	10.0	Class G			
L1	6.75	4.5	0 - 12448	15.1	P-110 LT&C		Unknown	0	0.0	0.0
							Unknown	0	0.0	0.0

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP

NAME Laura Abrams	TITLE Regulatory Analyst II	PHONE 720 929-6356
SIGNATURE	DATE 12/10/2013	EMAIL Laura.Abrams@anadarko.com
API NUMBER ASSIGNED 43019500430000	APPROVAL Permit Manager	

T16S, R22E, S.L.B.&M.

The survey plat shows a grid of sections. Section 3 contains the well location. Key features include:

- Bottom Hole Locations:**
 - NAD 83 STPC (UTAH CENTRAL) N: 6,974,870' E: 2,208,848' Lat: 39° 27' 00.767"N (39.450213°N) Lon: 109° 29' 12.442"W (109.486789°W)
 - NAD 27 STPC (UTAH CENTRAL) N: 413,212' E: 2,568,639' Lat: 39° 27' 00.887"N (39.450247°N) Lon: 109° 29' 09.987"W (109.486108°W)
- Surface Positions:**
 - NAD 83 STPC (UTAH CENTRAL) N: 6,970,892' E: 2,208,963' Lat: 39° 26' 21.429"N (39.439286°N) Lon: 109° 29' 12.126"W (109.486702°W)
 - NAD 27 STPC (UTAH CENTRAL) N: 409,234' E: 2,568,753' Lat: 39° 26' 21.549"N (39.439319°N) Lon: 109° 29' 09.671"W (109.486020°W)
- Well Location:** WILLOW RIDGE 1622-3M3D-BH1. ELEV. UNGRADED GROUND = 7354.6'
- Section Corners:** Located at the intersections of the section lines. Bearings and distances are provided for each corner.
- Found 1922 Brass Cap in Mound of Stones:** Indicated at several section corners.

NOTES:

- ▲ = Section Corner Located
- △ = Section Corner Located (Not Monumented)
- 1. Well footages are measured at right angles to the Section Lines.
- 2. Elevations Based on NAVD 88 (GEOID12A)
- 3. Basis of Bearings Derived From Utah Coordinate System 1983 Central Zone Unless Otherwise Noted.
- 4. All Measured Distances Are Grid, U.S. Survey Foot. Combined Scale Factor: 0.9995770166
- 5. The Bottom of hole bears N01°38'49"W 3979.94' from the Surface Position.

Anadarko E&P Onshore LLC
1099 18th Street - Denver, Colorado 80202

WELL PAD - WILLOW RIDGE 1622-3M

WILLOW RIDGE 1622-3M3D-BH1
WELL PLAT

660' FNL, 150' FWL (Bottom Hole)
LOT 4 OF SECTION 3, T16S, R22E,
S.L.B.&M., GRAND COUNTY, UTAH.

CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

No. 6028691
JOHN R. SLAUGH
PROFESSIONAL LAND SURVEYOR
STATE OF UTAH

TIMBERLINE

(435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 11-04-13	SURVEYED BY: J.W.A.	SHEET NO: 1
DATE DRAWN: 11-06-13	DRAWN BY: M.W.W.	1 OF 14
SCALE: 1" = 1000'	Date Last Revised: 2-28-14 J.G.C.	

DATE SURVEYED: 11-04-13	SURVEYED BY: J.W.A.	SHEET NO: <div style="font-size: 2em; text-align: center;">1</div> 1 OF 14
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